



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: JT15D-1 series
 UNIQUE ID NUMBER: 1PW035
 COMBUSTOR:
 ENGINE TYPE: TF

BYPASS RATIO: 3.3
 PRESSURE RATIO (π_{00}): 9.8
 RATED THRUST (F_{00}) (kN): 9.8

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	293.6	665.2	31.1	19.3
AS % OF ORIGINAL LIMIT				
AS % OF CAEP/2 LIMIT (NO _x)				
AS % OF CAEP/4 LIMIT (NO _x)				
AS % OF CAEP/6 LIMIT (NO _x)				
AS % OF CAEP/8 LIMIT (NO _x)				

DATA STATUS

x PRE-REGULATION
 - CERTIFICATION
 x REVISED (SEE REMARKS)

TEST ENGINE STATUS

- NEWLY MANUFACTURED ENGINES
 x DEDICATED ENGINES TO PRODUCTION STANDARD
 - OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
 (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
 x OUT OF PRODUCTION (DATE: -)
 - OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F ₀₀)	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO _x	
TAKE-OFF	100	0.7	0.148	0.01	2.65	7.60	15.0
CLIMB OUT	85	2.2	0.124	0.01	3.50	6.77	
APPROACH	30	4.0	0.051	4.43	40.50	3.44	
IDLE	7	26.0	0.023	50.50	132.00	1.75	
LTO TOTAL FUEL (kg) or EMISSIONS (g)			71	1866	5306	263	-
NUMBER OF ENGINES				1	1	1	1
NUMBER OF TESTS				1	1	1	1
AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX)				190.7	542.0	26.9	15.0
SIGMA (D _p /F ₀₀ in g/kN, or SN)							
RANGE (D _p /F ₀₀ in g/kN, or SN)							

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AT - POWER SETTINGS
 STAGE BLEED 0 (% CORE FLOW) AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	100.5
TEMPERATURE (K)	290
ABS HUMIDITY (kg/kg)	0.0079

FUEL

SPEC	Jet A-1
H/C	1.85
AROM (%)	20

MANUFACTURER: Pratt & Whitney Canada
 TEST ORGANIZATION: Pratt & Whitney Canada
 TEST LOCATION: Longueuil, Quebec
 TEST DATES: 17/08/1977

REMARKS

- Not required to meet GASEOUS emissions regulations.
- Applicable to JT15D-1, -1A, -1B.

Compliance with Fuel Venting requirements: -

('x' if complies, 'PR' if pre-regulation, '-' if information is not available)